PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

-10	PATENT COOPERATION TREATY
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INTERNA	ATIONAL PRELIMINARY EXAMINATION REPORT
	(PCT Article 36 and Rule 70)
Applicant's or agent's file reference 8L-P/02198	FOR FURTHER ACTION See Notification of Transmittal of Interna Preliminary Examination Report (Form PCT/IPEA.
nternational application No. PCT/JP2003/003691	International filing date (day/month/year) 26 March 2003 (26.03.2003) Priority date (day/month/year) 27 March 2002 (27.03.200
nternational Patent Classification (IPC) H01M 4/58, 4/02, 10/40	or national classification and IPC
Applicant	YUASA CORPORATION
I Basis of the re	hment of opinion with regard to novelty, inventive step and industrial applicability
V Reasoned star citations and VI Certain docu	atement under Article 35(2) with regard to novelty, inventive step or industrial applicability explanations supporting such statement aments cited cts in the international application ervations on the international application
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International application No.

PCT/JP2003/003691

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

I. Statement			
Novelty (N)	Claims	4-6	YES
1.0.0.9 (1.7)	Claims	1-3	NO NO
Inventive step (IS)	Claims		YES
Inventive step (15)	Claims	1-6	NO
Industrial applicability (IA)	Claims	1-6	YES
	Claims		NO

2. Citations and explanations

Document 1: JP 10-289731 A (Sanyo Electric Co., Ltd.), 27
October 1998

Document 2: JP 05-242891 A (Sanyo Electric Co., Ltd.), 21
September 1993

Document 3: JP 04-106875 A (Honda Motor Co., Ltd.), 8
April 1992

Document 4: JP 2000-077071 A (NEC Corporation), 14 March 2000

The inventions set forth in claims 1 to 3 are identical to the inventions set forth in documents 1 to 3 cited in the international search report, and therefore lack novelty and do not involve an inventive step. Document 1 sets forth a nonaqueous electrolyte battery using $\operatorname{Li}_a\operatorname{Co}_b\operatorname{Mn}_c\operatorname{M}_d\operatorname{Ni}_{1-(b+c+d)}\operatorname{O}_2$ (satisfying the following conditions: 0 < a < 1.2, $0.1 \le b < 1$, $0.05 \le c < 1$, $0 \le d < 1$, $0.15 \le b + c + d < 1$) as a positive electrode material, and embodiment 16 sets forth a lithium rechargeable battery using $\operatorname{Li}_1\operatorname{Co}_{0.9}\operatorname{Mn}_{0.05}\operatorname{Ni}_{0.05}\operatorname{O}_2$ as a positive electrode material. Document 2 (embodiment 1) and document 3 (claim 1) sets forth a positive electrode substance containing the composition of the inventions set forth in claims 1 to 3 of this application.

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The invention set forth in claims 4 to 6 does not involve an inventive step in the light of documents 1 to 4 cited in the international search report. Document 4 indicates that by having the positive electrode contain a lithium-manganese composite oxide and a lithium-nickel composite oxide, Mn elution from the lithium-manganese composite oxide and changes in the Li concentration in the electrolyte solution are controlled, thereby making it possible to provide a nonaqueous electrolyte rechargeable battery with improved preservation of capacity, safety, and charge and discharge life at high temperatures, and it would be easy for a person skilled in the art to apply the composite oxide set forth in documents 1 to 3 as said lithium-nickel composite oxide.

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VI. Certain documents cited

 Certain published documents (R)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2003-142075 A	16 May 2003 (16.05.2003)	02 November 2001 (02.11.2001)	
[E,X]			
JP 2002-110253 A	12 April 2002 (12.04.2002)	29 September 2000 (29.09.2000)	
[E, X]			
JP 2002-151076 A	24 May 2002 (24.05.2002)	14 November 2000 (14.11.2000)	
[E, X]			

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure

Date of non-written disclosure
(day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)